

VII. ABSTRACT

This invention relates to apparatus and methods of delivering various compositions including medicaments to a variety of targets. The invention includes a dose administrator (1) which may be used for intranasal delivery of compositions or medicaments, such as live 5 virus vaccines, to both humans and animals. An axial collapse prevention element (2) to prevent excessive axial deflection of the dose administrator (1) or a dose-location coordinate indicator (3) to facilitate the delivery of a dose to the desired target location may be coupled to the dose administrator (1). An intranasal probe (4) having a force dissemination contact surface (7) may be responsive to a first end of the dose administrator (1). The dose may be 10 delivered from a conformable dose sequestration element (10) through an aperture which penetrates the dose delivery aperture element (5) and the dose may be caused to stream by coupling a stream delivery element (6) to the dose delivery aperture element (5). The force application element (12) which acts upon the dose may be separated from the dose by a fluid dose propellant (13). While the invention may be used for numerous applications, it 15 specifically addresses the difficulties of delivering cold-adapted live equine influenza viruses intranasally to equids.

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